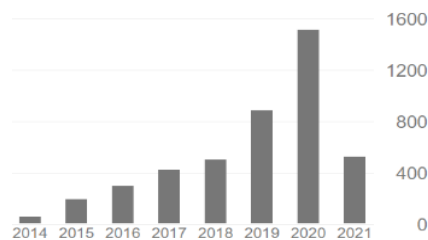




Dr. Kishor Kumar Sadasivuni

Center for Advanced Materials,
Qatar University. Managing
Editor, *Emergent Materials*,
Qatar University & Springer.
[Google Scholar](#), [ResearchGate](#), [ORCID](#),
[Scopus](#)

	All	Since 2016
Citations	4422	4159
h-index	36	36
i10-index	102	101



Dr. Kishor Kumar is working in Center for Advanced Materials, Qatar University. He has published more than 200 Journal papers, 12 book chapters, 8 books edited, 4 patents filed and having 36 h-index (google scholar). He has about 10 years of experience in synthesis & characterization of nanoparticles and also in manufacturing nanocomposites for industrial applications. His areas of interest include different types of nanocomposite fabrication, modifications, designs and their applications especially sensors, piezoelectrics, actuators, energy storage, Dielectrics, 3D-Printing and flexible electronics.

E-mail:

kishorkumars@qu.edu.qa,
kishor_kumars@yahoo.com

Address:

Office-E131, Zone 6,
Building H10,
Center for Advanced Materials,
Qatar University, Doha.
P.O. Box 2713 | Doha, Qatar.

Tel & Skype:

Tel: +97450580237
Kishore.kumar338

Personal Webpage

QUALIFICATIONS

➤ **Ph. D (Material Science)** (Nov 2012), University of South Brittany, France.

Thesis title: Development of high-performance poly (isobutylene-co-isoprene) nanocomposites for mechanical, barrier and sensing applications.

➤ **M. Sc. (Analytical Chemistry)** (May 2008), Andhra University, Visakhapatnam, India.

➤ **B. Sc (Chemistry)** (May 2006), Andhra University, Visakhapatnam, India.

VISITING RESEARCHER

➤ **Dec 2012- Feb 2013:** AMME-LECAP, EA 4528 International Laboratory, Institute of Material Research FED4114, Université de Rouen, Faculté des Sciences, Avenue de l'Université BP 12, 76801 Saint Etienne du Rouvray, France.

➤ **Apr 2012-May 2012:** Laboratory of Applied Rheology and Polymer Processing, Katholieke Universiteit, Leuven, Department of Chemical Engineering, Belgium.

➤ **Sep 2009- Oct 2010:** Leibniz Institute of Polymer Research, Dresden, Germany.

ACHIEVEMENTS AND AWARDS

➤ Recognized and ranked among the world's top 2% scientists listed by prestigious Stanford University.

➤ Tyre & Rubber Industry Leadership Acknowledgement Awards (TRILA): Young Research Scholar of the Year 2017

- Second prize in the Entrepreneurship Day 22nd of February 2017 competition at QATAR UNIVERSITY, Presenters- Dr. John-John Cabibihan and Dr. Kishor Kumar Sadasivuni. Title - Wearable sensor technologies

AWARDS FOR SUPERVISED and CO-SUPERVISED STUDENTS

- First prize in the ALBAIRAQ competition. Project title: Hydrogel sensors for the agricultural applications. 2019
- Mohammad Houkan and Mohammad Taha, Senior Projects Presentation, 1st Place for “Smart capacitive biometric sensors for fingerprint devices security,” Mechanical and Industrial Engineering Department, Qatar University, Fall 2016.
- Mohammad El-Khatib, Mohammad Houkan, Mohammad Taha, Microsoft Imagine Cup, Innovation Category, National Winner, Qatar, 2016.
- Second prize in the ALBAIRAQ competition. Project title: Recyclable & Reusable Sensors from Industrial and Environmental Plastic Waste. 2018

ONGOING RESEARCH PROJECTS

- **Functionalized 2D graphene and MXene nanocomposites-based prototype for CO₂-to-C₂ fuels electro-conversion with smart online monitoring sensor system.**
Role: Lead principle investigator **Budget:** 599k\$
Grant number: NPRP11S-1221-170116.
- **The Sunflower Effect: A Bio-Inspired Approach for Heat-Seeking 4D/3D Printed Solar Cells**
Role: Principle investigator **Budget:** 599k\$
Grant number: NPRP12S-0131-190030
- **A noninvasive monitor to predict hypoglycemia in diabetes patients. Principle investigator.**
Role: Principle investigator **Budget:** 599k\$
Grant number: NPRP11S-0110-180247.
- **Non-invasive method for early detection of Heart failure from MEMS based Biomedical sensors**
Role: Lead principle investigator **Budget:** 60k\$
Grant: IRCC_126-2020
- **Manipulating reusable and self-disinfecting gloves to prevent COVID-19 transmission and designing an e-dustbin for gloves and masks**
Role: Lead principle investigator **Budget:** 20k\$
Grant number: RRC-2-063.
- **Glycan profile analysis and enrichment towards diagnostics of breast cancer using advanced detection of cancer biomarkers.**
Role: Principle investigator **Budget:** 25k\$
Grant: IRCC_128-2020

- **Smart, Snap-on Device for Detecting Aggressive Behaviors in Children with Autism during Meltdown Events**
Role: Principle investigator **Budget:** 30k\$
Grant: M-CTP-CENG-2020-4
- **In Situ Mechanical and Electrical Characterization of Chalcogenide Thin films for High Temperature and Humid Climates Using Synchrotron Radiation**
Role: Principle investigator **Budget:** 120k\$
Grant: IRCC_2021 (Accepted from QU)
- **Highly selective e-nose as VOC biomarkers in breath based on sulfonated poly(ether ether ketone) [SPEEK]/2D metal carbide MXenes nanocomposites.**
Role: Primary Research Mentor **Budget:** 5k\$
Grant number: UREP23-116-2-041.
- **An integrated NFC sensor for monitoring of concrete structures life span and oil/ gas pipeline leakage**
Role: Primary Research Mentor **Budget:** 10k\$
Grant number: UREP24-133-2-036
- **Quantifying Reactive Oxygen Species (Like Nitric Oxide and Hydrogen Peroxide) in Exhaled Breath as Bio Fingerprints for Detection of Coronavirus**
Role: Primary Research Mentor **Budget:** 30k\$
Grant number: UREP 27-044-3-016
- **3D printed MXene based sensors for biomedical applications, Qatar University, Lead principle investigator.**
Role: Lead principle investigator **Budget:** 6k\$
Grant number: QUST-1-CAM-2019-8.
- **Fabrication of the heart rate sensor using photopolymer resin with 3D printing technology.**
Role: Primary Research Mentor **Budget:** 5k\$
Grant number: HSREP02-1227-190017
- **Hydrogel sensors for the agricultural applications**
Role: Lead principle investigator **Budget:** 6k\$
Grant number: QUST-2-CAM-2019-4
- **IOT based Smart RFID Sensors for Detection of Volatile Organic Compounds (VOCs)**
Role: Lead principle investigator **Budget:** 5k\$
Grant number: QRDG_2020
- **Prediction of COVID-19 using Colorimetric sensor via smartphone app**
Role: Lead principle investigator **Budget:** 13k\$
Grant number: QUCD-ER-CAM-2020-1
- **Non-invasive wearable multisensory solutions towards diagnosing metabolic disorders: Diabetes, Hypertension, and Hyper Cholesteremia.**
Role: Lead principle investigator **Budget:** 83k\$
Grant number: QUCG-ER-CAM-2021

EXPERIENCE

- **Oct 2017- Present:** Managing Editor, Emergent Materials Journal, Qatar University and Springer.
- **Feb 2018- Present:** Research Associate, Center for Advanced Materials, Qatar University, Qatar.
- **Jul2015-Oct2017:** Post-Doctoral Fellow, Department of Mechanical Engineering, Qatar University, Qatar.
Project- “Development of Smart Minimum Invasive Surgery Tools with Tactile Sensing Capabilities for Telerobot surgery System” and “Neuromorphic Tactile Sensing: A Paradigm Shift for Prosthetics and Surgical Robotics” NPRP4-368-2-135 & NPRP7-673-2-251.
- **Mar2015-Jun2015:** Post-Doctoral Fellow, Centre for Advanced Materials (CAM, Prof. Mariam Ali Al-Madeed), Qatar University, Qatar.
Project- “Development of Self-healing Corrosion Protection Barriers from Chitosan-based Nanocomposites” NPRP 4-800-2-297.
- **Nov2013-Feb2015:** Post-Doctoral Fellow, Department of Mechanical Engineering, Inha University, South Korea.
Project- “Bionanocomposites for Reconfigurable Actuating Lens” Brain Korea.
- **Mar2013-Sep2013:** Post-Doctoral Fellow, Centre for Advanced Materials (CAM), Qatar.
Project- “Development of oil sensor based on conductive polymer composite” NPRP-6.
- **Mar2009-Feb2010:** Junior Research Fellow in School of Chemical Sciences, Mahatma Gandhi University, India.
Project- “Development of high-performance butyl rubber and chlorobutyl rubber nanocomposites for barrier application” DST, India.

PROFESSIONAL SOCIETY MEMBERSHIP

- Member of Society for Interdisciplinary Research in Materials and Biology.
- Lifetime member of Society for Advancement of Electrochemical Science and Technology (SAEST).
- Lifetime member of Materials Research Society of India.
- Lifetime member of the Society for Polymer Science.

FULL PUBLICATIONS LIST

Reviews

1. Influence of nanotechnology to combat against COVID-19 for global health emergency: A review

Rangayasami, A., Kannan, K., Murugesan, S., Radhika, D., Sadasivuni, K.K., Reddy, K.R. and Raghu, A.V. Sensors International, 2020, p.100079.

2. Surface functionalization of chitosan as a coating material for orthopaedic applications: A Comprehensive Review

Kumari, S., Tiyyagura, H.R., Pottathara, Y.B., Sadasivuni, K.K., Ponnamma, D., Douglas, T.E., Skirtach, A.G. and Mohan, M.K. Carbohydrate Polymers, 2020, p.117487.

3. Methanol electrolysis for hydrogen production using polymer electrolyte membrane: a mini-review

Pethaiah, S.S., Sadasivuni, K.K., Jayakumar, A., Ponnamma, D., Tiwary, C.S. and Sasikumar, G.

Energies, 2020,13(22), p.5879.

4. Graphene quantum dot based materials for sensing, bio-imaging and energy storage applications: a review

Kumar, Y.R., Deshmukh, K., Sadasivuni, K.K. and Pasha, S.K.
RSC Advances, 2020, 10(40), pp.23861-23898.

5. Enhancement of the yield of solar still with the use of solar pond: A review

Panchal, H., Sadasivuni, K.K., Essa, F.A., Shanmugan, S. and Sathyamurthy, R
Heat Transfer,2020.

6. Enhancement of the distillate yield of solar still by separate and inbuilt Condensers: A Mini-Review.

Panchal, H. and Sadasivuni, K.K
International Journal of Ambient Energy, pp.1-14.

7. Productivity enhancement of solar still with thermoelectric modules from groundwater to produce potable water: A review

Panchal, H., Sadasivuni, K.K., Prajapati, C., Khalid, M., Essa, F.A., Shanmugan, S., Pandya, N., Suresh, M., Israr, M., Dharaskar, S. and Khechekhouche, A.
Groundwater for Sustainable Development,2020, p.100429.

8. Current Trends in MXene-Based Nanomaterials for Energy Storage and Conversion System: A Mini Review

Kannan, K., Sadasivuni, K.K., Abdullah, A.M. and Kumar, B.
Catalysts, 10(5),2020, p.495.

9. Effect of fin configuration parameters on performance of solar still: A review

Mevada, D., Panchal, H., kumar Sadasivuni, K., Israr, M., Suresh, M., Dharaskar, S. and Thakkar, H.
Groundwater for Sustainable Development,2020, 10, p.100289.

10. Use of solar photovoltaic with active solar still to improve distillate output: A review

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11. Recent Advances in durability of superhydrophobic self-cleaning technology: A critical review

Dalawai, S.P., Aly, M.A.S., Latthe, S.S., Xing, R., Sutar, R.S., Nagappan, S., Ha, C.S., Sadasivuni, K.K. and Liu, S.
Progress in Organic Coatings,2020, 138, p.105381.

12. Recent advancements in condensers to enhance the performance of solar still: A review

Panchal, H., Mevada, D. and Sadasivuni, K.K.
Heat Transfer,2020, 49(6), pp.3758-3778.

13. Effect of fin configuration parameters on performance of solar still: A review.

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14. Applications of Evacuated tubes collector to harness the solar energy: A Review.

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15. Evolution from graphite to graphene elastomer composites.

K. K. Sadasivuni*, D. Ponnamma, S. Thomas, Y. Grohens
Progress in Polymer Science, 39, 749-780, 2014.

16. Carbon Nanotubes based Elastomer Composites-An Approach Towards Multifunctional Materials.

D. Ponnamma, K. K. Sadasivuni*, Q. Guo, Y. Grohens, S. Thomas
Journal of Materials Chemistry C, 2, 8446-8485, 2014.

17. Graphene and graphitic derivatives filled polymer composites as potential sensors

D. Ponnamma, Q. Guo, I Krupa, M. A. Al-Maadeed, K. T. Varughese, S. Thomas, K. K. Sadasivuni*
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18. Recent Advances in Electrochemical Biosensor and Gas Sensors Based on Graphene and Carbon Nanotubes (CNT) - A Review

Thangamani. G. J, K. Deshmukh, K. K. Sadasuvuni, K. Chidambaram, M. Basheer Ahamed, D. Ponnamma, M. A. Al-Maadeed, S. K. Khadheer Pasha. Advanced Materials Letters, 8, 196-205, 2017.

19. A review on porous polymer composite materials for multifunctional electronic applications

K. K. Sadasivuni, J.-J. Cabibihan, K. Deshmukh, S. Goutham, M. K. Abubasha, J. P. Gogoi, I. Klemenoks, G. Sakale, B. Satya Sekhar, P. S. Rama Sreekanth, K. Venkateswara Rao, and Maris Knite, polymer-plastics technology and engineering, 2018,
<https://doi.org/10.1080/03602559.2018.1542729>

20. Biopolymer Composite Membranes for Purification of Water: A Review

R. S. Dongre, K. K. Sadasivuni*, K. Deshmukh, A. Mehta, S. Basu, J. S. Meshram, M. A. Al-Maadeed, A. Karim. polymer-plastics technology and engineering, 1-16, 2019.

21. Biopolymer Composites and its Mechanical Energy Applications: A review

K. K. Sadasivuni, P. Saha, J. Adhikari, K. Deshmukh, Sowmya Sankaran, M. Basheer Ahamed, John-John Cabibihan.
Composites Part B: Engineering, 2018. (Accepted)

22. Flexible, biodegradable and recyclable solar cells: a review

K. K. Sadasivuni, K. Deshmukh, T.N. Ahipa, A. Muzaffar, M. B. Ahamed, S. K. K. Pasha, M. A. Al-Maadeed. Journal of Materials Science: Materials in Electronics, 1-24, 2018.

23. Various techniques to enhance distillate output of tubular solar still: A review.

Panchal, H., Sadasivuni, K.K., Israr, M. and Thakar, N., 2019. *Groundwater for Sustainable Development*, p.100268.

24. Natural polymer based composite membranes for water purification: a review.

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25. A review on porous polymer composite materials for multifunctional electronic applications

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26. Recent advances in mechanical properties of biopolymer composites: a review.

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28. Self-cleaning superhydrophobic coatings: Potential industrial applications

SS Latthe, RS Sutar, VS Kodag, AK Bhosale, AM Kumar, KK Sadasivuni, R. Xing, S. Liu. Progress in Organic Coatings 128, 52-58, 2019.

JOURNALS

29. Photocatalytic and antimicrobial properties of microwave synthesized mixed metal oxide nanocomposite.

Kannan, K., Radhika, D., Gnanasangeetha, D., Lakkaboyana, S.K., Sadasivuni, K.K., Gurushankar, K. and Hanafiah, M.M., 2021. Inorganic Chemistry Communications, 125, p.108429.

30. An Experimental Investigation of Emission Performance of Heterogenous Catalyst

Jatropha Biodiesel using RSM. Singh, A., Sinha, S., Choudhary, A.K., Sharma, D., Panchal, H. and Sadasivuni, K.K., 2021. Case Studies in Thermal Engineering, p.100876.

31. Khan, H., Kushwah, K.K., Singh, S., Urkude, H., Maurya, M.R. and Sadasivuni, K.K., 2021.

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32. Performance enhancement using TiO₂ nano particles in solar still at variable water

depth. Parikh, R., Patdiwala, U., Parikh, S., Panchal, H. and Sadasivuni, K.K., 2021. International Journal of Ambient Energy, pp.1-14.

33. The role of cellulose nanofibrillated fibers produced with combined supercritical carbon dioxide and high-pressure homogenization process as reinforcement material in biodegradable polymer.

Rizal, S., Sadasivuni, K.K., Atiqah, M.N., Olaiya, N.G., Paridah, M.T., Abdullah, C.K., Alfatah, T., Mistar, E.M. and Khalil, H.A., Polymer Composites.

34. Calcined hydrotalcites of varying Mg/Al ratios supported Rh catalysts: highly active

mesoporous and stable catalysts toward catalytic partial oxidation of methane. Mozammel, T., Dumbre, D., Selvakannan, P.R., Sadasivuni, K.K. and Bhargava, S.K., Emergent Materials, pp.1-13.

35. Wear, optimization and surface analysis of Al-Al₂O₃-TiO₂ hybrid metal matrix

composites. Ahamad, N., Mohammad, A., Sadasivuni, K.K. and Gupta, P., 2021. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 235(1), pp.93-102

36. Effect of plain strain deformation on grain strengthening mechanism of Fe-Al₂O₃ metal

matrix nanocomposites. Gupta, V.K., Harshit, K., Jha, A.K., Kumar, D., Sadasivuni, K.K. and Gupta, P., 2021. Journal of Composite Materials, 55(2), pp.291-302.

37. Wear, optimization and surface analysis of Al-Al₂O₃-TiO₂ hybrid metal matrix composites

Ahamad, N., Mohammad, A., Sadasivuni, K.K. and Gupta, P.

Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2021, 235(1), pp.93-102.

38. Photocatalytic and antimicrobial properties of microwave synthesized mixed metal oxide nanocomposite

Kannan, K., Radhika, D., Gnanasangeetha, D., Lakkaboyana, S.K., Sadasivuni, K.K., Gurushankar, K. and Hanafiah, M.M. Inorganic Chemistry Communications, 2020, p.108429.

39. Influence of Lean Premixed Ratio of PCCI-DI Engine fueled by Diesel/Biodiesel Blends on Combustion, Performance, and Emission Attributes; a Comparison Study

Elkelawy, M., Bastawissi, H.A.E., El Shenawy, E.A., Shams, M.M., Panchal, H., Sadasivuni, K.K. and Chaudhary, A.K. Energy Conversion and Management: X, 2020, p.100066.

40. A novel method for arduino based electric vehicle emulator

Ashokkumar, R., Suresh, M., Sharmila, B., Panchal, H., Gokul, C., Udhayanatchi, K.V., Sadasivuni, K.K. and Israr, M. International Journal of Ambient Energy, 2020, pp.1-14.

41. Amoxicillin loaded Nickel functionalized polymeric bentonite carrier for enhanced therapeutic activity

Gowri, M., Latha, N., Suganya, K., Kumar, S.K., Alahmadi, T.A., Alharbi, S.A., Murugan, M. and Rajan, M.

Journal of Polymer Research, 2020, 27(12), pp.1-12.

42. Study of performance, combustion, and emissions parameters of DI-diesel engine fueled with algae biodiesel/diesel/n-pentane blends

Elkelawy, M., Bastawissi, H.A.E., El Shenawy, E.A., Taha, M., Panchal, H. and Sadasivuni, K.K. Energy Conversion and Management: X, 2020, p.100058.

43. Comparison of BPN, RBFN and wavelet neural network in induction motor modelling for speed estimation

Subasri, R., Meenakumari, R., Panchal, H., Suresh, M., Priya, V., Ashokkumar, R. and Sadasivuni, K.K. International Journal of Ambient Energy, 2020, pp.1-6.

44. Photocatalytic, antibacterial and electrochemical properties of novel rare earth metal oxides-based nanohybrids

Kannan, K., Radhika, D., Nesaraj, A.S., Sadasivuni, K.K., Reddy, K.R., Kasai, D. and Raghu, A.V. Materials Science for Energy Technologies, 2020, 3, pp.853-861.

45. Dicarboxylic acid cross-linked metal ion decorated bentonite clay and chitosan for fluoride removal studies

Nagaraj, A., Pillay, K., Kumar, S.K. and Rajan, M. RSC Advances, 2020, 10(28), pp.16791-16803.

46. Performance analysis of waste brick magnesite as a storage material in a solar still

Panchal, H., Sadasivuni, K.K., Shanmugan, S. and Pandya, N. Heat Transfer, 2020.

47. Fabrication of robust self-cleaning superhydrophobic coating by deposition of polymer layer on candle soot surface

Sutar, R.S., Lathe, S.S., Nagappan, S., Ha, C.S., Sadasivuni, K.K., Liu, S., Xing, R. and Bhosale, A.K. Journal of Applied Polymer Science, 2021, 138(9), p.49943.

48. Understanding the binding interaction between phenyl boronic acid P1 and sugars: determination of association and dissociation constants using S-V plots, steady-state spectroscopic methods and molecular docking

Melavanki, R., Sharma, K., Yallur, B.C., Kusanur, R., Sadasivuni, K.K., Singh, D., Mane, S., Katagi, K. and Pattar, S.V. Luminescence, 2020.

49. A simple chemical precipitation of ceria based (Sm doped-CGO) nanocomposite: structural and electrolytic behaviour for LT-SOFCs

Kannan, K., Radhika, D., Nesaraj, A.S., Revathi, V. and Sadasivuni, K.K., SN Applied Sciences, 2020, 2, pp.1-9.

50. Progress of Advanced Nanomaterials in the Non-Enzymatic Electrochemical Sensing of Glucose and H₂O₂

Thatikayala, D., Ponnamma, D., Sadasivuni, K.K., Cabibihan, J.J., Al-Ali, A.K., Malik, R.A. and Min, B. Biosensors, 2020, 10(11), p.151.

51. Facile synthesis of NiO-CYSO nanocomposite for photocatalytic and antibacterial applications.

Kannan, K., Radhika, D., Nesaraj, A.S., Sadasivuni, K.K. and Krishna, L.S. Inorganic Chemistry Communications, 2020, p.108307.

52. Experimental investigation on solar still with nanomaterial and dripping arrangement
Panchal, H. and Sadasivuni, K.K. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2020, pp.1-11.

53. Design and experimental analysis of solar powered water desalination system using humidification dehumidification

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54. Oil–Water Separation by ZnO-Based Superhydrophobic PU Sponges

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Macromolecular Symposia, 2020, 393(1), p. 2000036

55. Spray Deposition of PDMS/Candle Soot NPs Composite for Self-Cleaning Superhydrophobic Coating

Sutar, R.S., Latthe, S.S., Sargar, A.M., Patil, C.E., Jadhav, V.S., Patil, A.N., Kokate, K.K., Bhosale, A.K., Sadasivuni, K.K., Mohite, S.V. and Liu, S.

Macromolecular Symposia, 2020, 393(1), p. 2000031

56. Superhydrophobic PU Sponge Modified by Hydrophobic Silica NPs—Polystyrene Nanocomposite for Oil–Water Separation

Sutar, R.S., Salunkhe, R.C., Latthe, S.S., Kodag, V.S., Shewale, P.M., Shinde, S.R., Sajjan, M.B., Karenavar, M.H., Sadasivuni, K.K., Mohite, S.V. and Liu, S.

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57. Superhydrophobic PVC/SiO₂ Coating for Self-Cleaning Application

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58. Superhydrophobic Coating Using TiO₂ NPs/PMHS Composite for Self-Cleaning Application

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Macromolecular Symposia, 2020, 393(1), p. 2000033

59. Investigation of interaction between boronic acids and sugar: effect of structural change of sugars on binding affinity using steady state and time resolved fluorescence spectroscopy and molecular docking

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62. Non-Invasive Diabetic Sensor Based on Cellulose Acetate/Graphene Nanocomposite

Yempally, S., Hegazy, S.M., Aly, A., Kannan, K. and Sadasivuni, K.K

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- Materials and Design, Elsevier
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- Colloid and polymer science, Springer
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TEACHING

- Courses: Advanced Materials and Composites. Graduate students, College of Arts and Science.
- Courses: Sensors and Actuators based on polymer composites
- Courses: Flexible piezo/dielectric materials based on polymer composites

EDITORIAL

- Managing Editor- Emerging Materials, Springer.
- Editorial Board Member- Bulletin of Chemical and Pharma Research.
- Guest Editor- Sensors & Transducers journal, IFSA Publishing.
- Guest Editor- International Journal of Materials Science and Applications.
- Frontiers Bioengineering, Editorial Board Member and Review Editor.
- International Program Committee member- ICSR 2017 Conference, Tsukuba, Japan.

RESEARCH SUMMARY

My research group is focused broadly on science and technology at the nanoscale, harnessing the unique physical properties of novel nanomaterials to push scientific boundaries in electronics and other interdisciplines. Our mission is to explore interdisciplinary research opportunities at the interfaces of nanotechnology, electronics, 3D printing and other research with a particular focus on nanomaterial-based sensing techniques for disease diagnosis, corrosion detection, dangerous gas leakage, signal processing and coding, along with nanomaterials devices for renewable energy and clean water technologies.

Our research strategically aligns with International Funding, Qatar National Research Funding and Qatar University Internal Grants Funding priorities, in particular the Qatar National Vision 2030.

PERSONAL DETAILS

Name: Kishor Kumar Sadasivuni
Gender: Male
Date of Birth and Place: 28th Aug, Andhra Pradesh, India
Nationality: Indian
Marital Status: Married, +2
Current Address: Office E131, Zone 6, Building H10, Qatar University, Qatar
Mobile phone no: +97450580237